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<213> *Saccharomyces cerevisiae*

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<212> DNA

<213> Saccharomyces cerevisiae

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<213> *Saccharomyces cerevisiae*

<400> 429

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<211> 2469
<212> DNA
<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

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<211> 1812
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 434

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<211> 2124
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 435

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<210> 436
 <211> 978
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 436

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<210> 437
<211> 2271
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 437

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<210> 438
<211> 2646
<212> DNA

<213> Saccharomyces cerevisiae

<400> 438

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<210> 439
 <211> 1248
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 439

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<210> 440
 <211> 4140
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 440

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 <213> *Saccharomyces cerevisiae*

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<211> 4557
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 446

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<211> 2532
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<400> 447

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<211> 1359
<212> DNA
<213> *Saccharomyces cerevisiae*
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 <211> 369
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 449

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 <211> 765
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 <213> Saccharomyces cerevisiae

<400> 450

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<210> 451
 <211> 612
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 451

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<210> 452
 <211> 3096
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 452

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 <211> 2859
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 453

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<400> 454

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 <211> 1719
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 455

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<210> 456
<211> 1644
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 456

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<210> 457
 <211> 1920
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 457

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<210> 458
 <211> 1212
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 458

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<210> 459
<211> 1248
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 459

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<210> 460
<211> 1935
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 460

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<210> 461
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 <212> DNA
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<400> 461

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<210> 462
 <211> 1536
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 462

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<211> 3342
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 463

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<210> 464
 <211> 1113
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 464

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<210> 465
 <211> 1839
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 465

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 <211> 1314
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 466

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<210> 467
 <211> 2091
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 467

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<211> 1449
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 468

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<212> DNA
<213> *Saccharomyces cerevisiae*

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 <212> DNA
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 <211> 324
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 471

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<210> 472
 <211> 363
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<210> 473

<211> 1917
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 473

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<210> 474
<211> 1152
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 474

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<210> 475
<211> 2106
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 475

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 <211> 1692
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 476

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<213> *Saccharomyces cerevisiae*

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 <211> 2028
 <212> DNA
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<400> 482

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<400> 483

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3195

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<211> 1041
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 484

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<210> 485
<211> 2880
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<213> *Saccharomyces cerevisiae*

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 486

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<211> 573
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 489

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<210> 490
<211> 615
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 490

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<210> 491
 <211> 633
 <212> DNA
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<400> 491

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 492

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 <211> 2865
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 493

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 <211> 786
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 494

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<210> 495
<211> 2418
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 495

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<211> 2295
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 496

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<210> 497
 <211> 2013
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 497

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<210> 498
<211> 390
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 498

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<210> 499
<211> 1848
<212> DNA
<213> *Saccharomyces cerevisiae*

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 <212> DNA
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<400> 501

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<210> 502
 <211> 1809
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 502

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 <211> 2592
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 503

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 <211> 2916
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 504

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 <211> 2871
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 506

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<211> 1632
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 507

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<211> 1383
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 508

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<210> 509
<211> 1314
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 509

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<210> 510
 <211> 1350
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 510

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<210> 511
 <211> 378
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 511

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<210> 512

<211> 1026

<212> DNA

<213> Saccharomyces cerevisiae

<400> 512

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<210> 513
<211> 1356
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 513

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<211> 1989
<212> DNA
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<212>      DNA
<213>      Saccharomyces cerevisiae

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 <213> *Saccharomyces cerevisiae*

<400> 528

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 <213> *Saccharomyces cerevisiae*

<400> 529

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<211> 3396
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 530

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<211> 1551
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 531

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<211> 1764
<212> DNA
<213> *Saccharomyces cerevisiae*

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 533

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<210> 534
 <211> 1704
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 534

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<210> 535
<211> 3255
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 535

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 <213> *Saccharomyces cerevisiae*

<400> 543

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<212> DNA
<213> *Saccharomyces cerevisiae*

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 <211> 2832
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 546

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 <211> 2433
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 547

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<400> 549

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<212> DNA
<213> *Saccharomyces cerevisiae*

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<210> 551
<211> 1176
<212> DNA

<213> Saccharomyces cerevisiae

<400> 551

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<210> 552

<211> 1587

<212> DNA

<213> Saccharomyces cerevisiae

<400> 552

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<212>      DNA
<213>      Saccharomyces cerevisiae

<400>      553

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 <213> *Saccharomyces cerevisiae*

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<210> 555
 <211> 981
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 555

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<210> 556
 <211> 2862
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 556

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<211> 1839
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 557

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 <213> *Saccharomyces cerevisiae*

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 <211> 1650
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 <213> *Saccharomyces cerevisiae*

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<210> 560
 <211> 1941
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 560

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<210> 561
 <211> 486
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 561

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 562

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<210> 564
<211> 1596
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 564

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<210> 565
<211> 297
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 565

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attcaatcgg aaattatctc agattacaat aaagtcaagc ctcttgtgaa agtaacctac 180
aaggacaaaa aagaaatgga agtcgatcca tcaaacaatga actttcagga attagccaat 240
catttcgacc gtcactcgaa acagctggat ctcaaacata tgttggaat gcattga 297

<210> 566
<211> 363
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 566

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tag 363

<210> 567
<211> 1908
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 567

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<210> 568
 <211> 417
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 568

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<210> 569
<211> 768
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 569

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<210> 570
<211> 324
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 570

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gtgggttaaag aatctaagaa ataa 324

<210> 571
<211> 936
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 571

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<210> 572
<211> 3294
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 572

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<213> *Saccharomyces cerevisiae*

<400> 573

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<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 574

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 <211> 489
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 <213> *Saccharomyces cerevisiae*

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 <212> DNA
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<211> 2988
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<213> *Saccharomyces cerevisiae*

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 578

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<211> 564
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 579

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<211> 303
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 580

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<400> 581

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306

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 585

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 <211> 5097
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 587

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 ttacttaaca ttacatattt attggattag 330

<210> 590
 <211> 330
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 591
 <211> 369
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<210> 592
 <211> 366
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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 gagttctcct ggcttttctc cacgtgtctg cttgttgctt ttgatttcgc gagagactgc 180
 ggactgccac cccactccgg gaaaacctgg agtgatggta aaggccctgc ggcgctttct 240
 ttcggaaaaa ctaatacgaa agaagcaaca acaaattttt acaacaggct ggacgagaaa 300
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<210> 593
 <211> 357
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 593

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<210> 594

<211> 387

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 594

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<210> 595

<211> 1044

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 595

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<210> 596
 <211> 447
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 596

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 ctgaaagtga aagaaccagt ttgtaacctc aagaagtggg aaaataacac taactttata 240
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 agtattgatg aggattattg cccttcaaat gttctttag gatgttcaag agatctaaat 420
 aaactcagat catttcaaaa ttttttag 447

<210> 597
 <211> 1539
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 597

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<211> 1029
<212> DNA
<213> *Saccharomyces cerevisiae*
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 <211> 4308
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 599

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<211> 3399
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 600

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<213>      Saccharomyces cerevisiae

<400>      610

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 <213> *Saccharomyces cerevisiae*

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 616

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<210> 617
 <211> 342

<212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 617

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<210> 618
 <211> 363
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 618

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 619

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accatccatc tctctactta ctactaccat ccaccgcca tcataaccgt taccctccaa 360
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<210> 620
 <211> 1764
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 620

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 gaacagatca atgctatagt tgaaaaccac aataacaaat taaccactgc ctttgataag 180
 atatcatatc gcgttgctca caagattaca cacttggtgg aaagccattc tttagtattc 240
 aactacgcca ctttagttct catcgcaagt gctttggctg ttattggctc atttacgtct 300
 atttcttcta ttccatttac agctctacct cctacgagag aacactcatt gtttgatcct 360
 acagattttg atgtggacca cgactgtcat gttatctacc gcgagaatga cgaagataaa 420
 aagaaaaaga agaaaagcaa gaggtttttc gatatgatgg atgaaaaaca tgcgattata 480
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 ctaaactggc taaaatatgt ggtgaaaatt ttgaatttta atataacact gctaaatata 600
 ccagctggca catttgctta ctctacttt ctcaactcac ttttcagaaa cctatcacat 660
 ttagcttctt ggaatcccct ggttgtttta ccaaggatc gtgtaacaat agctgatgat 720
 aacgaagacc tgaacaagat aggcggggtt gttaccaatt tgaattaçaa agatggattg 780
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 catttttaca gaagagaatt agttgaaccg aaggatatta aatcgaagag gcagatcagc 900
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 gatgccgaca agtatgcctt gcttgggtgat gatgtaaagc aaaattttga cgatgatgaa 1680
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<210> 621
 <211> 1929
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 621

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 ttagacacct ccggcaactc accagccaat gaacacacag ctaccacaat tacacagaat 180
 cacagcgtgg tggcctcaaa cggagacgtc gcattcatcc caggaactgc taccgaaggc 240
 aatacagaga ttgtaactga agaagtgatt gagaccgatg ataacatgtt caagacccat 300
 gtgaagactt taagctccaa agagaaggca cggatataggc aagggtcctc taactttata 360
 tcgtatttcg atgatatgtc atttgaacac aggcccagta tattagatgg gtcagttaac 420
 gagcccttca agaccaaatt cgtgggacct actttagaaa aggagatcag aagaaggag 480
 aaagagctaa tggccatgcg caaaaattta caccaccgca agtcctcccc agatgctgtc 540
 gactcagtag ggaaaaatga tggcgccgcc ccaactactg ttccaactgc cgccacctca 600
 gaaacggtgg tcaccgttga aaccaccata atttcatcca atttctccgg gttgtacgtg 660
 gcgttttgga tggctattgc atttgggtgt gtcaaggctt taatagacta ttattaccag 720
 cataatggta gcttcaagga ttcggagatc ttgaaattta tgactacgaa tttgttctact 780
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<210> 622
 <211> 358
 <212> PRT
 <213> Glycine max
 <400> 622

Met	Thr	Met	Leu	Gln	Lys	Met	Ala	Glu	Leu	Met	Glu	Tyr	Ser	Tyr	Leu
1			5					10					15		
Leu	Asp	Met	Ala	Asp	Lys	Thr	Glu	Asp	Pro	Tyr	Met	Arg	Leu	Val	Tyr
		20					25					30			
Ala	Ser	Ser	Phe	Phe	Ile	Ser	Val	Tyr	Tyr	Ala	Tyr	Gln	Arg	Thr	Trp
	35					40					45				
Lys	Pro	Phe	Asn	Pro	Ile	Leu	Gly	Glu	Thr	Tyr	Glu	Met	Val	Asn	His
	50					55					60				
Gly	Gly	Ile	Thr	Phe	Ile	Ser	Glu	Gln	Val	Ser	His	His	Pro	Pro	Met
65					70					75					80

Ser Ala Gly His Ala Glu Thr Glu His Phe Thr Tyr Asp Val Thr Ser
 85 90 95
 Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser Val Asp Val Tyr Pro Val
 100 105 110
 Gly Arg Thr Arg Val Thr Leu Lys Arg Asp Gly Val Val Leu Asp Leu
 115 120 125
 Val Pro Pro Pro Thr Lys Val Ser Asn Leu Ile Phe Gly Arg Thr Trp
 130 135 140
 Ile Asp Ser Pro Gly Glu Met Ile Leu Thr Asn Leu Thr Thr Gly Asp
 145 150 155 160
 Lys Val Val Leu Tyr Phe Gln Pro Cys Gly Trp Phe Gly Tyr Glu Val
 165 170 175
 Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr
 180 185 190
 Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln Val Cys Asp Ser Glu Gly
 195 200 205
 Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu Ile Trp Arg Val Ala Asp
 210 215 220
 Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile
 225 230 235 240
 Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg
 245 250 255
 Leu Arg Pro Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser
 260 265 270
 Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg
 275 280 285
 Asn Arg Glu Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu
 290 295 300
 Thr Asp Glu Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln
 305 310 315 320
 Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu
 325 330 335
 Cys Ile Glu Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr
 340 345 350
 Asp Asn Leu Asp Ala Glu
 355

<210> 623
 <211> 300

<212> PRT
 <213> Glycine max

<400> 623

Met Cys Asn Asn Gly Gln Ser Pro Leu Asp Arg Phe Ile Ser Val Val
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Ala Trp Cys Ile Ser Thr Thr Arg Pro Val Thr Phe Gly Val Ala Pro
 20 25 30

Tyr Asn Pro Ile Leu Gly Glu Thr His His Val Ser Arg Gly Asn Leu
 35 40 45

Asn Val Leu Leu Glu Gln Ile Ser His His Pro Pro Val Thr Ala Leu
 50 55 60

His Ala Thr Asp Glu Lys Glu Asn Ile Glu Met Leu Trp Cys Gln Arg
 65 70 75 80

Pro Asp Pro Lys Phe Asn Gly Thr Ser Val Glu Ala Lys Val His Gly
 85 90 95

Ile Arg Gln Leu Lys Leu Leu Asn His Gly Glu Thr Tyr Glu Met Asn
 100 105 110

Cys Pro Arg Leu Leu Leu Arg Ile Leu Pro Val Pro Gly Ala Asp Trp
 115 120 125

Ala Gly Thr Val Asn Ile Arg Cys Leu Glu Thr Gly Leu Val Ala Glu
 130 135 140

Leu Ser Tyr Arg Ser Ser Ser Phe Leu Gly Ile Gly Gly Asn His Arg
 145 150 155 160

Val Ile Lys Gly Lys Ile Leu Asp Ser Ser Ser Leu Lys Val Leu Tyr
 165 170 175

Glu Val Asp Gly His Trp Asp Arg Thr Val Lys Val Lys Asp Thr Asn
 180 185 190

Asn Gly Lys Val Arg Val Ile Tyr Asp Ala Lys Glu Val Met Ser Gly
 195 200 205

Leu Glu Thr Pro Ile Leu Lys Asp Ile Glu Gly Val Trp Gln Thr Glu
 210 215 220

Ser Ala His Val Trp Gly Glu Leu Asn Gln Ala Ile Val Ser Lys Asp
 225 230 235 240

Trp Glu Lys Ala Arg Glu Ala Lys Leu Lys Val Glu Glu Arg Gln Arg
 245 250 255

Glu Leu Val Arg Glu Arg Glu Ser Lys Gly Glu Thr Trp Ile Ser Lys
 260 265 270

His Phe Val Val Ser Asn Asn Lys Glu Gly Trp Gln Cys Ser Pro Ile

275	280	285
His Lys Ser Val Pro Ala Ala Pro Ile Thr Ala Leu		
290	295	300
<210>	624	
<211>	355	
<212>	PRT	
<213>	Glycine max	
<400>	624	
Met Ala Glu Leu Met Glu Tyr Ser Tyr Leu Leu Asp Met Ala Asp Lys		
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Thr Glu Asp Pro Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile		
	20	25 30
Ser Val Tyr Tyr Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile		
	35	40 45
Leu Gly Glu Thr Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile		
	50	55 60
Ser Glu Gln Val Ser His His Pro Pro Met Ser Ala Gly His Ala Glu		
65	70	75 80
Thr Glu His Phe Thr Tyr Asp Val Thr Ser Lys Leu Lys Thr Lys Phe		
	85	90 95
Leu Gly Asn Ser Val Asp Val Tyr Pro Val Gly Arg Thr Arg Val Thr		
	100	105 110
Leu Lys Arg Asp Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys		
	115	120 125
Val Ser Asn Leu Ile Phe Gly Arg Thr Trp Ile Asp Ser Pro Gly Glu		
	130	135 140
Met Ile Leu Thr Asn Leu Thr Thr Gly Asp Lys Val Val Leu Tyr Phe		
145	150	155 160
Gln Pro Cys Gly Trp Phe Gly Ala Gly Arg Tyr Glu Val Asp Gly Tyr		
	165	170 175
Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr Gly Lys Trp		
	180	185 190
Asn Glu Ala Met Asn Tyr Gln Val Cys Asp Ser Glu Gly Glu Pro Leu		
	195	200 205
Pro Gly Thr Glu Leu Lys Glu Ile Trp Arg Val Ala Asp Thr Pro Lys		
	210	215 220
Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile Asn Ser Phe		
225	230	235 240

Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg Leu Arg Pro
245 250 255

Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser Gly Tyr Glu
260 265 270

Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg Asn Arg Glu
275 280 285

Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu Thr Asp Glu
290 295 300

Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln Tyr Asn Gly
305 310 315 320

Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu Cys Ile Glu
325 330 335

Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr Asp Asn Leu
340 345 350

Asp Ala Glu
355

<210> 625

<211> 414

<212> PRT

<213> Zea mays

<400> 625

Met Ala Thr Lys Glu Glu Ala Ser Ala Val Pro Ala Ala Ser Lys Thr
1 5 10 15

Ser Trp Ser Ser Phe Leu Lys Ser Ile Ala Ser Phe Asn Gly Asp Leu
20 25 30

Ser Ser Leu Thr Ala Pro Pro Phe Ile Leu Ser Thr Thr Ser Leu Thr
35 40 45

Glu Tyr Ser Ala Tyr Trp Cys Glu His Pro Ala Leu Phe Val Ala Pro
50 55 60

Ala Arg Glu Pro Asp Pro Ala Lys Arg Ala Leu Leu Val Leu Lys Trp
65 70 75 80

Phe Leu Ser Thr Leu His Gln Gln Tyr Cys Ser Arg Ser Glu Lys Leu
85 90 95

Gly Ser Glu Lys Lys Pro Leu Asn Pro Phe Leu Gly Glu Leu Phe Leu
100 105 110

Gly Lys Trp Ile Glu Asp Glu Asp Val Gly Glu Thr Arg Leu Ile Ser
115 120 125

Glu	Gln	Val	Ser	His	His	Pro	Pro	Ala	Thr	Ala	Tyr	Ser	Ile	Val	Asn	
130						135					140					
Glu	Lys	His	Gly	Val	Glu	Leu	Gln	Gly	Tyr	Asn	Ala	Gln	Lys	Ala	Ser	
145					150					155					160	
Phe	Ser	Ser	Thr	Ile	Gln	Val	Lys	Gln	Leu	Gly	His	Ala	Tyr	Leu	Ser	
				165					170					175		
Leu	Thr	Pro	Pro	Gly	Lys	Asp	Ala	Asn	Asn	Glu	Asp	Asp	Arg	Glu	His	
			180					185					190			
Tyr	Leu	Ile	Thr	Leu	Pro	Asn	Leu	His	Ile	Glu	Ser	Leu	Ile	Tyr	Gly	
	195					200						205				
Thr	Pro	Phe	Val	Glu	Leu	Glu	Lys	Ser	Cys	Lys	Ile	Ala	Ser	Ser	Thr	
	210					215					220					
Gly	Tyr	Ile	Ser	Lys	Ile	Asp	Phe	Ser	Gly	Lys	Gly	Trp	Leu	Ser	Gly	
225				230						235					240	
Lys	Lys	Asn	Thr	Phe	Ser	Ala	Val	Leu	Tyr	Lys	Glu	Ser	Asp	Gly	Glu	
			245					250						255		
Lys	Asn	Pro	Leu	Tyr	Thr	Ala	Asp	Gly	Gln	Trp	Ser	Ser	Ser	Phe	Thr	
		260						265					270			
Ile	Arg	Asp	Ala	Arg	Ala	Lys	Lys	Asp	Ile	Glu	Thr	Phe	Thr	Ile	Ser	
	275					280						285				
Asn	Leu	Lys	Thr	Thr	Pro	Leu	Thr	Val	Ala	Pro	Leu	Asp	Glu	Gln	Asp	
	290					295					300					
Glu	Trp	Glu	Thr	Arg	Arg	Ala	Trp	Arg	Asp	Val	Ala	Ala	Ala	Ile	Glu	
305				310						315					320	
Arg	Gly	Asp	Met	Glu	Ala	Thr	Ser	Asn	Ala	Lys	Thr	Lys	Ile	Glu	Val	
			325					330					335			
Ala	Gln	Arg	Glu	Leu	Arg	Lys	Lys	Glu	Lys	Glu	Gln	Gly	Glu	Glu	Trp	
		340						345					350			
Glu	Arg	Arg	Phe	Phe	Lys	Arg	Val	Asn	Glu	Lys	Asp	Glu	Pro	Thr	Phe	
	355						360					365				
Met	Arg	Leu	Ala	Ala	Met	Leu	Asp	Leu	Thr	Gln	Gly	Ile	Glu	Ser	Asp	
	370					375					380					
Arg	Thr	Gly	Gly	Val	Trp	Arg	Phe	Asp	Pro	Ser	Arg	Ala	Val	Asp	Ala	
385				390						395					400	
Asn	Pro	Pro	Tyr	His	Lys	Val	Gly	Gly	Glu	Gly	Leu	Gly	Leu			
			405						410							

<210> 626

<211> 434

<212> PRT
 <213> Saccharomyces cerevisiae

<400> 626

Met	Ser	Gln	His	Ala	Ser	Ser	Ser	Ser	Trp	Thr	Ser	Phe	Leu	Lys	Ser	1	5	10	15
Ile	Ser	Ser	Phe	Asn	Gly	Asp	Leu	Ser	Ser	Leu	Ser	Ala	Pro	Pro	Phe	20	25	30	
Ile	Leu	Ser	Pro	Thr	Ser	Leu	Thr	Glu	Phe	Ser	Gln	Tyr	Trp	Ala	Glu	35	40	45	
His	Pro	Ala	Leu	Phe	Leu	Glu	Pro	Ser	Leu	Ile	Asp	Gly	Glu	Asn	Tyr	50	55	60	
Lys	Asp	His	Cys	Pro	Phe	Asp	Pro	Asn	Val	Glu	Ser	Lys	Glu	Val	Ala	65	70	75	80
Gln	Met	Leu	Ala	Val	Val	Arg	Trp	Phe	Ile	Ser	Thr	Leu	Arg	Ser	Gln	85	90	95	
Tyr	Cys	Ser	Arg	Ser	Glu	Ser	Met	Gly	Ser	Glu	Lys	Lys	Pro	Leu	Asn	100	105	110	
Pro	Phe	Leu	Gly	Glu	Val	Phe	Val	Gly	Lys	Trp	Lys	Asn	Asp	Glu	His	115	120	125	
Pro	Glu	Phe	Gly	Glu	Thr	Val	Leu	Leu	Ser	Glu	Gln	Val	Ser	His	His	130	135	140	
Pro	Pro	Met	Thr	Ala	Phe	Ser	Ile	Phe	Asn	Glu	Lys	Asn	Asp	Val	Ser	145	150	155	160
Val	Gln	Gly	Tyr	Asn	Gln	Ile	Lys	Thr	Gly	Phe	Thr	Lys	Thr	Leu	Thr	165	170	175	
Leu	Thr	Val	Lys	Pro	Tyr	Gly	His	Val	Ile	Leu	Lys	Ile	Lys	Asp	Glu	180	185	190	
Thr	Tyr	Leu	Ile	Thr	Thr	Pro	Pro	Leu	His	Ile	Glu	Gly	Ile	Leu	Val	195	200	205	
Ala	Ser	Pro	Phe	Val	Glu	Leu	Gly	Gly	Arg	Ser	Phe	Ile	Gln	Ser	Ser	210	215	220	
Asn	Gly	Met	Leu	Cys	Val	Ile	Glu	Phe	Ser	Gly	Arg	Gly	Tyr	Phe	Thr	225	230	235	240
Gly	Lys	Lys	Asn	Ser	Phe	Lys	Ala	Arg	Ile	Tyr	Arg	Ser	Pro	Gln	Glu	245	250	255	
His	Ser	His	Lys	Glu	Asn	Ala	Leu	Tyr	Leu	Ile	Ser	Gly	Gln	Trp	Ser	260	265	270	
Gly	Val	Ser	Thr	Ile	Ile	Lys	Lys	Asp	Ser	Gln	Val	Ser	His	Gln	Phe				

275	280	285
Tyr Asp Ser Ser Glu Thr	Pro Thr Glu His Leu	Leu Val Lys Pro Ile
290	295	300
Glu Glu Gln His Pro Leu	Glu Ser Arg Arg Ala Trp	Lys Asp Val Ala
305	310	315 320
Glu Ala Ile Arg Gln Gly	Asn Ile Ser Met Ile	Lys Lys Thr Lys Glu
325	330	335
Glu Leu Glu Asn Lys Gln	Arg Ala Leu Arg Glu	Gln Glu Arg Val Lys
340	345	350
Gly Val Glu Trp Gln Arg	Arg Trp Phe Lys Gln	Val Asp Tyr Met Asn
355	360	365
Glu Asn Thr Ser Asn Asp	Val Glu Lys Ala Ser	Glu Asp Asp Ala Phe
370	375	380
Arg Lys Leu Ala Ser Lys	Leu Gln Leu Ser Val	Lys Asn Val Pro Ser
385	390	395 400
Gly Thr Leu Ile Gly Gly	Lys Asp Asp Lys Lys	Asp Val Ser Thr Ala
405	410	415
Leu His Trp Arg Phe Asp	Lys Asn Leu Trp Met	Arg Glu Asn Glu Ile
420	425	430
Thr Ile		